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DIALOG(R)File 5:Biosis Previews(R)

0011204377 BIOSIS NO.: 199799838437
Preliminary studies on the binding of human autoantibodies to the MUC1 antigen
AUTHOR: Petrakou Eftichia (Reprint); Graves C Rosamund L; Von Mensdorff-Pouilly Silvia; Robertson John F R; Hilgers Jo; Price Mike R (Reprint)
AUTHOR ADDRESS: Cancer Res. Lab., Dep. Pharmaceutical Sci., Univ. Nottingham, Nottingham NG7 2RD, UK**UK
JOURNAL: International Journal of Oncology 11 (SUPPL.): p902 1997 1997
CONFERENCE/MEETING: 2nd World Congress on Advances in Oncology Athens, Greece October 16-18, 1997; 19971016
ISSN: 1019-6439
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DESCRIPTORS:
MAJOR CONCEPTS: Biochemistry and Molecular Biophysics; Clinical Endocrinology--Human Medicine, Medical Sciences; Oncology--Human Medicine, Medical Sciences; Reproductive System--Reproduction
BIOSYSTEMATIC NAMES: Hominidae--Primates, Mammalia, Vertebrata, Chordata, Animalia
ORGANISMS: human (Hominidae)
COMMON TAXONOMIC TERMS: Animals; Chordates; Humans; Mammals; Primates; Vertebrates
MISCELLANEOUS TERMS: ANTI- MUC1 AUTOANTIBODIES; BREAST CANCER; CLINICAL IMMUNOLOGY; MUCINS ; MUCUS GLYCOPROTEINS; NEOPLASTIC DISEASE; ONCOLOGY; PATIENT; REPRODUCTIVE SYSTEM DISEASE/FEMALE; Meeting Abstract
CONCEPT CODES:
00520 General biology - Symposia, transactions and proceedings

10064 Biochemistry studies - Proteins, peptides and amino acids
16506 Reproductive system - Pathology
24003 Neoplasms - Immunology
24006 Neoplasms - Biochemistry
34508 Immunology - Immunopathology, tissue immunology

BIOSYSTEMATIC CODES:

86215 Hominidae

1: J Tongji Med Univ. 1993;13(4):213-7.

Studies on monoclonal anti-isotypic and anti-idiotypic antibodies against leukemia and myeloma: VI. Purification and relative affinity of monoclonal antibodies.

Shen GX, Su N, Wang XL, Zhu HF, Zhang Y.

Department of Immunology, Tongji Medical University, Wuhan.

In this study, the anti-idiotypic and anti-isotypic antibodies (McAbs) against IgM of the Patient with B chronic lymphocytic leukemia (B-CLL) were purified from hybridoma ascites by n-Octoic acid precipitation method. The purified McAbs have high purify and high antibody activity as evidenced by immunoelectrophoresis, SDS-PAGE and ELISA. Relative affinity of 11 McAbs was measured by using indirect ELISA and double antibody sandwich ELISA method. It was found that relative affinity of various McAbs to the same antigen was different. 11 McAbs could be divided into two groups by analysing their 50% maximum binding. The relative affinity of 4 McAbs in the culture supernatants was consistent with that of McAbs in the purified ascites. Our experimental results provide an important basis for rational application of these McAbs.

PMID: 8151739 [PubMed - indexed for MEDLINE]

1: Hybridoma. 1987 Dec;6(6):605-10.

Screening for anti-idiotypic monoclonal antibodies on paraformaldehyde-fixed lymphoma cells.

Samoszuk M, Sholly S, Epstein AL.

Pathology Department, University of California, Irvine 92717.

Paraformaldehyde-fixed, human lymphoma cells on glass slides were used to screen murine hybridoma supernatants for anti-idiotypic monoclonal antibodies by a rapid indirect immunofluorescence technique. The method is shown to require far fewer cells for screening than current techniques, and it provides results that correlate with the results of screening by flow cytometry or by capture ELISA. We conclude that paraformaldehyde fixation preserves the idiotypic determinants of lymphomas. The assay described in this report, therefore, has significant advantages over current methods for producing anti-idiotypic monoclonal antibodies.

PMID: 3325402 [PubMed - indexed for MEDLINE]

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One entry found for **autoantibody**.

Main Entry: **au·to·an·ti·body**
Pronunciation: "o-(")tO-'an-ti-"bä-dE
Function: *noun*
Date: circa 1910
: an antibody active against a tissue constituent of the individual producing it

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\&\ as **a** and **u** in abut	\e\ as **e** in bet	\o\ as **aw** in law
\&\ as **e** in kitten	\E\ as **ea** in easy	\oi\ as **oy** in boy
\&r\as **ur/er** in further	\g\ as **g** in go	\th\ as **th** in thin
\a\ as **a** in ash	\i\ as **i** in hit	\th\ as **th** in the
\A\ as **a** in ace	\I\ as **i** in ice	\ü\ as **oo** in loot
		\u\ as **oo** in foot

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autoantibody (aw-to-an'ti-bod-e)

Antibody occurring in response to antigenic constituents of the host's tissue against self antigen, and which reacts with the inciting tissue component. **antiidiotype *autoantibody*** SYN: idiotype *autoantibody*. See antiidiotype *antibody*. **cold *autoantibody*** an *a.* that reacts at temperatures below 37°C. **Donath-Landsteiner cold *autoantibody*** an *a.* of the IgG class responsible for paroxysmal cold hemoglobinuria; it is adsorbed to red cells only at temperatures of 20°C or lower, causing the red cells to lyse in the presence of complement at higher temperatures; it has a specificity within the blood group (blood group) P; it is also occasionally present for short periods of time following measles and other infections, and formerly was frequently associated with syphilis. SYN: cold *hemolysin*. **hemagglutinating cold *autoantibody*** a cold autoagglutinin. idiotype ***autoantibody*** SYN: antiidiotype *autoantibody*. **warm *autoantibody*** an *a.* that reacts optimally at 37°C.

1: Eur J Cancer. 1996 Nov;32A(12):2155-63.

Human antibodies against the polymorphic epithelial mucin in ovarian cancer patients recognise a novel sequence in the tandem repeat region.

Petrarca C, Rughetti A, Rahimi H, D'Agostini F, Turchi V, Apollonj Ghetti C, Scambia G, Frati L, Nuti M.

Department of Experimental Medicine and Pathology, University of Rome, La Sapienza, Italy.

The humoral immune response to the polymorphic epithelial mucin (PEM) was studied by characterising the reactivity of human antibodies generated by EBV-immortalised B-cells from tumour-draining lymph nodes of ovarian cancer patients. All the human antibodies, selected in ELISA for their reactivity to the protein tandem core repeat sequence, reacted with PEM-expressing tumour cells. Aberrant glycosylation of the peptide core of the PEM molecule in cancer cells leads to the exposure of peptide epitopes that can be considered tumour specific. The epitope mapping of six human antibodies revealed that only one of them contained the PDTR sequence, shown to be the immunodominant epitope in the mouse. Four of the six human antibodies recognised a novel common immunogenic sequence (APPAH) in the tandem repeats. The binding of these human antibodies did not appear to be modulated by the length of the carbohydrate side chains, as shown by O-glycosylation inhibition studies. These results indicate that distinct sequences within the tandem repeat of PEM are target for a humoral immune response in humans. The presence of antibodies directed against different epitopes within the same antigenic region may modulate the antigen presentation process and the ongoing immune response. This data may help in clarifying the mechanisms of the immune response to PEM in cancer patients for the development of PEM-based immunotherapy.

PMID: 9014760 [PubMed - indexed for MEDLINE]

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